

**PRESENTATION OF CLAIMS**

Pending claims 1-22 are presented for ease of reference, but no claim is amended.

1. (Previously Presented) A method for analyzing a program, comprising the steps of:  
logging a plurality of stack traces and respective tags in a log file at respective points during  
execution of the program; and  
recording within the log file one or more of the tags as one or more marked tags.
2. (Original) The method according to claim 1, further comprising the step of:  
producing a report based on the log file.
3. (Previously Presented) The method according to claim 2, wherein the step of producing  
the report includes:  
identifying one or more of the stack traces that are associated with any of the one or more  
tags marked; and  
producing the report based on the identified one or more of the stack traces.
4. (Previously Presented) The method according to claim 2, wherein producing the report  
includes:  
identifying a last stack trace that is associated with one of the one or more marked tags; and  
producing the report based on the identified last stack trace.
5. (Previously Presented) The method according to claim 1, wherein:  
the tags indicate respective addresses of allocated objects; and

the one or more marked tags indicate one or more respective addresses of migrated objects.

6. (Previously Presented) A method for producing a diagnostic report for a program, comprising the steps of:

accessing a log file comprising a list of stack traces and respective tags at associated points during execution of the program and comprising one or more marked tags; and producing the diagnostic report based on the log file.

7. (Previously Presented) The method according to claim 6, wherein the step of producing the report includes:

identifying one or more of the stack traces that are associated with any of the one or more marked tags; and producing the report based on the identified one or more of the stack traces.

8. (Previously Presented) The method according to claim 6, wherein producing the report includes:

identifying a last stack trace that is associated with one of the one or more marked tags; and producing the report based on the identified last stack trace.

9. (Previously Presented) The method according to claim 6, wherein:

the tags indicate respective addresses of allocated objects; and

the one or more marked tags indicate one or more respective addresses of migrated objects.

10. (Previously Presented) A computer-readable medium bearing instructions for analyzing a program, said instructions being arranged to cause one or more processors upon execution thereby to perform the steps of:

logging a plurality of stack traces and respective tags in a log file at respective points during execution of the program; and  
recording within the log file one or more of the tags as one or more marked tags.

11. (Original) The computer-readable medium according to claim 10, further bearing instructions for performing the step of:

producing a report based on the log file.

12. (Previously Presented) The computer-readable medium according to claim 11, wherein the step of producing the report includes:

identifying one or more of the stack traces that are associated with any of the one or more marked tags; and  
producing the report based on the identified one or more of the stack traces.

13. (Previously Presented) The computer-readable medium according to claim 11, wherein producing the report includes:

identifying a last stack trace that is associated with one of the one or more marked tags; and  
producing the report based on the identified last stack trace.

14. (Previously Presented) The computer-readable medium according to claim 10, wherein:  
the tags indicate respective addresses of allocated objects; and

the one or more marked tags indicate one or more respective addresses of migrated objects.

15. (Previously Presented) A computer-readable medium bearing instructions for producing a diagnostic report for a program, said instructions being arranged to cause one or more processors upon execution thereby to perform the steps of:

accessing a log file comprising a list of stack traces and respective tags at associated points during execution of the program and comprising one or more marked tags; and producing the diagnostic report based on the log file.

16. (Previously Presented) The computer-readable medium according to claim 15, wherein the step of producing the report includes:

identifying one or more of the stack traces that are associated with any of the one or more marked tags; and producing the report based on the identified one or more of the stack traces.

17. (Previously Presented) The computer-readable medium according to claim 15, wherein producing the report includes:

identifying a last stack trace that is associated with one of the one or more marked tags; and producing the report based on the identified last stack trace.

18. (Previously Presented) The computer-readable medium according to claim 15, wherein: the tags indicate respective addresses of allocated objects; and the one or more marked tags indicate one or more respective addresses of migrated objects.

19. (Previously Presented) The method according to claim 4, wherein the step of producing the report includes:

processing the log file from the end backward until the beginning.

20. (Previously Presented) The method according to claim 8, wherein the step of producing the report includes:

processing the log file from the end backward until the beginning.

21. (Previously Presented) The computer-readable medium according to claim 13, wherein the step of producing the report includes:

processing the log file from the end backward until the beginning.

22. (Previously Presented) The computer-readable medium according to claim 17, wherein the step of producing the report include:

processing the log file from the end backward until the beginning.